

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.92	0.01	0.96	3.30%	0.98	1.72		
Trim / Thin Trees	0.41		0.41	1.41%				
Encroachments	0.06		0.06	0.21%	0.28	0.02		
<i>Supplemental</i>								
USACE Erosion Survey	0.31		0.31	1.07%				
<i>LMA Totals:</i>	1.70	0.01	1.74	5.98% *	1.26	1.74	0.00	0.00

  

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.27%	0.11	0.74		
Trim / Thin Trees	0.02		0.02	0.18%				
Encroachments	0.03		0.03	0.27%	0.03	0.01		
<i>Supplemental</i>								
USACE Erosion Survey	0.29		0.29	2.63%				
<i>Unit Totals:</i>	0.37	0.00	0.37	3.35%	0.14	0.75	0.00	0.00

  

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03	0.01	0.07	0.40%	0.87	0.98		
Trim / Thin Trees	0.39		0.39	2.21%				
Encroachments	0.03		0.03	0.17%	0.25	0.01		
<i>Supplemental</i>								
USACE Erosion Survey	0.02		0.02	0.11%				
<i>Unit Totals:</i>	0.47	0.01	0.51	2.89% *	1.12	0.99	0.00	0.00

  

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.86		0.86	200.00%				
<i>Unit Totals:</i>	0.86	0.00	0.86	200.00%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections  
LMA District Cover Sheet  
Fall 2012 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			<b>M</b>	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles
Unit No. 01 Left Bank Steamboat Slough	Left	11.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	03/20/2012 - 03/21/2012		10/23/2012 - 10/23/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Michael Moncrief MBK		Michael Moncrief MBK	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	2
								DWR ID: DWR_RD0003_01_s_2012_2		
2	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	13
								DWR ID: DWR_RD0003_01_s_2012_13		
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	189
								DWR ID: DWR_RD0003_01_s_2012_189		
4	0.14	0.14	Earthen Levee	Encroachments	LS	M Ma	TR : Tree or limb	38.303222 ° -121.576648 °	38.303222 ° -121.576648 °	19
								DWR ID: DWR_RD0003_01_f_2012_19		
5	0.18	0.23	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Mass failure of berm slope and wave wash erosion. Large trees on top of berm, some failed trees. New area of low rock to on the upstream end. 2000 - Some minor erosion near the downstream end. 2005 - One new small tree has fallen. 2009 - Minimal new erosion. 2010 - Minor new erosion. 2012: No observed change. [2012 Site ID: STM_26-0_L]	38.303035 ° -121.577357 °	38.302544 ° -121.578241 °	4 Y
								DWR ID:		
6	0.21	0.21	Earthen Levee	Encroachments	WS	M En	GA : Garbage Inspector Comments: Landowner has piled wooden boards and trash on waterside berm.	38.302625 ° -121.577683 °	38.302625 ° -121.577683 °	188 Y
								DWR ID: DWR_RD0003_01_s_2012_188		
7	0.22	0.33	Earthen Levee	Vegetation	WS	U En	V6 : Landscaping	38.302530 ° -121.577848 °	38.301424 ° -121.579113 °	6 Y
								DWR ID: DWR_RD0003_01_s_2012_6		
8	0.39	0.39	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.300492 ° -121.579454 °	38.300492 ° -121.579454 °	3
								DWR ID: DWR_RD0003_01_s_2012_3		
9	0.46	0.46	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.299690 ° -121.579959 °	38.299690 ° -121.579959 °	22 Y
								DWR ID: DWR_RD0003_01_f_2012_22		
10	0.58	0.58	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		38.298038 ° -121.580895 °	38.298038 ° -121.580895 °	1
								DWR ID: DWR_RD0003_01_s_2012_1		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
11	0.92	1.01	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Erosion of sandy levee on top left bank. Site is downstream of a rock section. Large riparian trees on the bank. 1999 - Upstream half of the reach repaired with rock, except for a 30 ft reach at the upstream end. 2001 - Rock repair on the upstream and downstream ends; no revetment at the trees. 2002 - Rock repair is starting to slide off the geotextile at the upstream end. 2005 - One new small tree has fallen. 2006 - 50 ft pocket at the downstream end and at the upstream end with new rock in between. 2007 - Upstream end has been repaired. 2010 - Some minor new erosion. 2011 - Minor new erosion. 2012: Minor new erosion at the toe. [2012 Site ID: STM_25-0_L]	38.293386 ° -121.582554 °	38.292675 ° -121.582741 °	10 Y
DWR ID:										
12	0.97	0.97	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake pipe through levee.	38.292662 ° -121.582536 °	38.292662 ° -121.582536 °	30 Y
DWR ID: DWR_RD0003_01_s_2012_30										
13	1.01	1.03	Earthen Levee	Vegetation	LS A/W	V2 : Remove the wild growth other than native grasses from the levee slopes. Ma	Inspector Comments: Vegetation on levee slope.	38.292052 ° -121.582671 °	38.291724 ° -121.582729 °	31 Y
DWR ID: DWR_RD0003_01_s_2012_31										
14	1.03	1.18	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Area closed sign on bank. Newly fallen trees at both ends and pop outs along the bank. 2010 - Site extended downstream. 2011 - New erosion at the toe. More trees popouts. 2012: No observed change. [2012 Site ID: STM_24-8_L]	38.291695 ° -121.582993 °	38.289575 ° -121.583092 °	14 Y
DWR ID:										
15	1.08	1.09	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.291055 ° -121.582765 °	38.290898 ° -121.582777 °	12 Y
DWR ID: DWR_RD0003_01_s_2012_12										
16	1.28	1.33	Earthen Levee	Trim / Thin Trees	LS A/W	T1 : Trim trees to at least five feet above ground level. Ma		38.288183 ° -121.582808 °	38.287433 ° -121.582982 °	5 Y
DWR ID: DWR_RD0003_01_s_2012_5										
17	1.32	1.32	Earthen Levee	Encroachments	WS	M En	PI : Pipe Inspector Comments: Irrigation intake pipe.	38.287518 ° -121.582953 °	38.287518 ° -121.582953 °	32 Y
DWR ID: DWR_RD0003_01_s_2012_32										
18	1.40	1.40	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment	38.286623 ° -121.583586 °	38.286614 ° -121.583583 °	33 Y
DWR ID: DWR_RD0003_01_s_2012_33										
19	1.60	1.60	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.284777 ° -121.586340 °	38.284777 ° -121.586340 °	15 Y
DWR ID: DWR_RD0003_01_s_2012_15										
20	1.61	1.61	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.284645 ° -121.586534 °	38.284645 ° -121.586534 °	7 Y
DWR ID: DWR_RD0003_01_s_2012_7										
21	1.62	1.62	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: USGS equipment and pipe penetration.	38.284604 ° -121.586597 °	38.284604 ° -121.586597 °	34 Y
DWR ID: DWR_RD0003_01_s_2012_34										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough		Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
22	1.64	1.66	Earthen Levee	Vegetation	LS	U	V6 : Landscaping	38.284574 ° -121.586631 °	38.284177 ° -121.587208 °	16 Y
								DWR ID: DWR_RD0003_01_s_2012_16		
23	1.77	1.77	Earthen Levee	Encroachments	LS	A/W	PR : Prunings	°	°	11 °
								DWR ID: DWR_RD0003_01_s_2012_11		
24	1.77	1.77	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.282771 ° -121.588227 °	38.282771 ° -121.588227 °	8 Y
								DWR ID: DWR_RD0003_01_s_2012_8		
25	1.87	1.87	Earthen Levee	Encroachments	WSA/W	PI	PI : Pipe Inspector Comments: Irrigation intake pipe penetration.	38.281442 ° -121.588495 °	38.281442 ° -121.588495 °	35 °
								DWR ID: DWR_RD0003_01_s_2012_35		
26	2.07	2.07	Earthen Levee	Encroachments	WS	M	PI : Pipe Inspector Comments: Pump shed on waterside slope.	38.278615 ° -121.588727 °	38.278615 ° -121.588727 °	36 Y
								DWR ID: DWR_RD0003_01_s_2012_36		
27	2.14	2.14	Earthen Levee	Encroachments	WSA/W	PI	PI : Pipe	38.277722 ° -121.589389 °	38.277722 ° -121.589389 °	37 °
								DWR ID: DWR_RD0003_01_s_2012_37		
28	2.15	2.17	Supplemental	USACE Erosion Survey	WS	C	Inspector Comments: 2009 - Slumping at the levee toe , cobbles at the downstream end. 2010 - Very steep new vertical slump, short site, but looked bad. 2011 - This site is upgraded to CRITICAL. A section of rock has failed. Significant new erosion, bank is vertical almost to the top of the levee. Levee has a road on top that is used by trucks and heavy farm equipment. 2012: Repaired with rock by local Reclamation District. [2012 Site ID: STM_23-8_L]	38.277595 ° -121.589773 °	38.277261 ° -121.590039 °	21 °
								DWR ID:		
29	2.46	2.46	Earthen Levee	Encroachments	WSA/W	PI	PI : Pipe Inspector Comments: Irrigation intake pipe penetration.	38.274123 ° -121.587694 °	38.274123 ° -121.587694 °	40 °
								DWR ID: DWR_RD0003_01_s_2012_40		
30	2.83	2.83	Earthen Levee	Vegetation	LS	M	V6 : Landscaping	38.268844 ° -121.588264 °	38.268844 ° -121.588264 °	41 °
								DWR ID: DWR_RD0003_01_s_2012_41		
31	2.94	2.94	Earthen Levee	Encroachments	LS	A/W	PI : Pipe	38.267578 ° -121.587391 °	38.267578 ° -121.587391 °	42 °
								DWR ID: DWR_RD0003_01_s_2012_42		
32	3.08	3.08	Earthen Levee	Encroachments	WSA/W	PI	PI : Pipe Inspector Comments: 2 pipe penetrations.	38.265510 ° -121.587167 °	38.265510 ° -121.587167 °	46 °
								DWR ID: DWR_RD0003_01_s_2012_46		
33	3.13	3.15	Earthen Levee	Vegetation	LS	M	V6 : Landscaping Inspector Comments: Oleander on landside shoulder.	38.264902 ° -121.587193 °	38.264580 ° -121.587220 °	20 Y
								DWR ID: DWR_RD0003_01_s_2012_20		
34	3.18	3.18	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps. Inspector Comments: 6 large stumps on slope.	38.264154 ° -121.587242 °	38.264154 ° -121.587242 °	47 °
								DWR ID: DWR_RD0003_01_s_2012_47		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough			Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
35	3.26	3.26	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	Inspector Comments: Pipe crossing	38.263071 ° -121.587549 °	38.263071 ° -121.587549 °	49
DWR ID: DWR_RD0003_01_s_2012_49										
36	3.26	3.26	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	Inspector Comments: Pipe crossing	38.262991 ° -121.587599 °	38.262991 ° -121.587599 °	50
DWR ID: DWR_RD0003_01_s_2012_50										
37	3.33	3.33	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping Inspector Comments: Cactus	38.262289 ° -121.588250 °	38.262289 ° -121.588250 °	51 Y
DWR ID: DWR_RD0003_01_s_2012_51										
38	3.52	3.52	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe	Inspector Comments: Abandoned pipe through levee.	38.261752 ° -121.591534 °	38.261752 ° -121.591534 °	52 Y
DWR ID: DWR_RD0003_01_s_2012_52										
39	3.83	3.83	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		38.258481 ° -121.593753 °	38.258481 ° -121.593753 °	53 Y
DWR ID: DWR_RD0003_01_s_2012_53										
40	3.90	3.90	Earthen Levee	Trim / Thin Trees	LS Ma	M	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	38.257453 ° -121.593942 °	38.257453 ° -121.593942 °	9
DWR ID: DWR_RD0003_01_s_2012_9										
41	4.08	4.08	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.255217 ° -121.595593 °	38.255217 ° -121.595593 °	39
DWR ID: DWR_RD0003_01_s_2012_39										
42	4.12	4.12	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.254844 ° -121.596045 °	38.254844 ° -121.596045 °	54
DWR ID: DWR_RD0003_01_s_2012_54										
43	4.16	4.16	Earthen Levee	Encroachments	LS A/W Ma	PR : Prunings		38.254455 ° -121.596635 °	38.254092 ° -121.597554 °	55
DWR ID: DWR_RD0003_01_s_2012_55										
44	4.18	4.18	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe		38.254311 ° -121.596956 °	38.254311 ° -121.596956 °	56
DWR ID: DWR_RD0003_01_s_2012_56										
45	4.30	4.49	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		38.253800 ° -121.599100 °	38.251824 ° -121.600980 °	57 Y
DWR ID: DWR_RD0003_01_s_2012_57										
46	4.41	4.41	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.252971 ° -121.600710 °	38.252971 ° -121.600710 °	58
DWR ID: DWR_RD0003_01_s_2012_58										
47	5.25	5.25	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	Inspector Comments: Pipe crossing	38.240973 ° -121.601374 °	38.240973 ° -121.601374 °	59
DWR ID: DWR_RD0003_01_s_2012_59										
48	5.33	5.33	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Century plant on landside slope next to ramp.	38.239886 ° -121.601752 °	38.239886 ° -121.601752 °	61 Y
DWR ID: DWR_RD0003_01_s_2012_61										
49	5.37	5.40	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.239276 ° -121.601899 °	38.238852 ° -121.602000 °	43
DWR ID: DWR_RD0003_01_s_2012_43										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
50	5.48	5.50	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Large century plants.	38.237690 ° -121.602231 °	38.236575 ° -121.602155 °	44 Y
DWR ID: DWR_RD0003_01_s_2012_44										
51	5.53	5.53	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.237000 ° -121.602208 °	38.237000 ° -121.602208 °	45 Y
DWR ID: DWR_RD0003_01_s_2012_45										
52	5.67	5.67	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	Inspector Comments: Pipe crossing	38.235049 ° -121.601810 °	38.235049 ° -121.601810 °	62 Y
DWR ID: DWR_RD0003_01_s_2012_62										
53	5.70	5.70	Earthen Levee	Encroachments	LS A/W	EQ : Equipment Ma	Inspector Comments: Landplane at toe of levee.	38.234628 ° -121.601726 °	38.234628 ° -121.601726 °	63 Y
DWR ID: DWR_RD0003_01_s_2012_63										
54	5.76	5.76	Earthen Levee	Vegetation	LS A/W	V6 : Landscaping En	Inspector Comments: Landowner trimmed landscaping.	38.233767 ° -121.601469 °	38.233767 ° -121.601469 °	64 Y
DWR ID: DWR_RD0003_01_s_2012_64										
55	5.98	5.98	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Pipe crossing	38.230616 ° -121.601643 °	38.230616 ° -121.601643 °	65 Y
DWR ID: DWR_RD0003_01_s_2012_65										
56	6.26	6.26	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Abandoned pipe	38.226430 ° -121.601432 °	38.226430 ° -121.601432 °	66 Y
DWR ID: DWR_RD0003_01_s_2012_66										
57	6.55	6.55	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Abandoned pipe	38.222481 ° -121.600987 °	38.222481 ° -121.600987 °	68 Y
DWR ID: DWR_RD0003_01_s_2012_68										
58	6.76	6.76	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	Inspector Comments: Drainage pipe crossing	38.219603 ° -121.601767 °	38.219603 ° -121.601767 °	69 Y
DWR ID: DWR_RD0003_01_s_2012_69										
59	6.90	6.90	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Pipe crossing	38.217893 ° -121.603146 °	38.217893 ° -121.603146 °	70 Y
DWR ID: DWR_RD0003_01_s_2012_70										
60	7.00	7.00	Earthen Levee	Encroachments	LS	GA : Garbage Ma		38.216583 ° -121.603986 °	38.216583 ° -121.603986 °	24 Y
DWR ID: DWR_RD0003_01_f_2012_24										
61	7.05	7.05	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Pipe crossing	38.215976 ° -121.604370 °	38.215976 ° -121.604370 °	71 Y
DWR ID: DWR_RD0003_01_s_2012_71										
62	7.08	7.10	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping Inspector Comments: Remove century plant on landside shoulder and slope.	38.215490 ° -121.604700 °	38.215355 ° -121.604793 °	23 Y
DWR ID: DWR_RD0003_01_s_2012_23										
63	7.22	7.49	Earthen Levee	Vegetation	WSA/W	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation near boat launch obstructs visibility.		38.213785 ° -121.605671 °	38.210179 ° -121.607686 °	72 Y
DWR ID: DWR_RD0003_01_s_2012_72										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough			Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
64	7.49	7.49	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.210178 ° -121.607687 °	38.210178 ° -121.607687 °	73 Y
DWR ID: DWR_RD0003_01_s_2012_73										
65	7.68	7.68	Earthen Levee	Vegetation	WS En	U	V6 : Landscaping	38.207640 ° -121.609334 °	38.207640 ° -121.609334 °	75 Y
DWR ID: DWR_RD0003_01_s_2012_75										
66	7.69	7.69	Earthen Levee	Encroachments	LS En	U	BU : Building	38.207666 ° -121.609327 °	38.207666 ° -121.609327 °	74 Y
DWR ID: DWR_RD0003_01_s_2012_74										
67	7.73	7.73	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.207036 ° -121.609540 °	38.207036 ° -121.609540 °	76 Y
DWR ID: DWR_RD0003_01_s_2012_76										
68	7.81	7.83	Earthen Levee	Vegetation	WS En	U	V6 : Landscaping	38.205964 ° -121.609576 °	38.205733 ° -121.609608 °	971 Y
DWR ID: DWR_RD0003_01_s_2012_971										
69	7.84	8.31	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping Inspector Comments: Trees within 10' of levee toe obstruct access and visibility of levee toe.	38.205243 ° -121.609689 °	38.198989 ° -121.611815 °	78 Y
DWR ID: DWR_RD0003_01_s_2012_78										
70	7.84	7.84	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe Inspector Comments: Pipe crossing	38.205254 ° -121.609686 °	38.205254 ° -121.609686 °	77 Y
DWR ID: DWR_RD0003_01_s_2012_77										
71	7.95	8.00	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.203945 ° -121.609932 °	38.203283 ° -121.610025 °	25 Y
DWR ID: DWR_RD0003_01_s_2012_25										
72	7.99	7.99	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe Inspector Comments: Pipe crossing	38.203173 ° -121.610047 °	38.203173 ° -121.610047 °	79 Y
DWR ID: DWR_RD0003_01_s_2012_79										
73	8.12	8.12	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe Inspector Comments: Pipe crossing	38.201582 ° -121.610448 °	38.201582 ° -121.610448 °	80 Y
DWR ID: DWR_RD0003_01_s_2012_80										
74	8.18	8.18	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe Inspector Comments: Pipe crossing	38.200684 ° -121.610858 °	38.200684 ° -121.610858 °	81 Y
DWR ID: DWR_RD0003_01_s_2012_81										
75	8.31	8.31	Earthen Levee	Encroachments	LS Ma	A/W	PI : Pipe	38.198989 ° -121.611816 °	38.198989 ° -121.611816 °	82 Y
DWR ID: DWR_RD0003_01_s_2012_82										
76	8.36	8.36	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe	38.198307 ° -121.612240 °	38.198307 ° -121.612240 °	83 Y
DWR ID: DWR_RD0003_01_s_2012_83										
77	8.45	8.45	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.197194 ° -121.612947 °	38.197194 ° -121.612947 °	17 Y
DWR ID: DWR_RD0003_01_s_2012_17										
78	8.72	8.72	Earthen Levee	Encroachments	WSA Ma	W	PI : Pipe	38.194531 ° -121.616327 °	38.194531 ° -121.616327 °	84 Y
DWR ID: DWR_RD0003_01_s_2012_84										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough				Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

  

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
79	8.75	8.75	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	Inspector Comments: RD 3 drainage discharge pipes. (3)	38.194295 ° -121.616896 °	38.194295 ° -121.616896 °	85 Y
DWR ID: DWR_RD0003_01_s_2012_85										
80	8.85	8.85	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.193706 ° -121.618549 °	38.193706 ° -121.618549 °	86 Y
DWR ID: DWR_RD0003_01_s_2012_86										
81	8.95	8.95	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	38.193142 ° -121.620206 °	38.193142 ° -121.620206 °	18
DWR ID: DWR_RD0003_01_s_2012_18										
82	9.04	9.04	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.192702 ° -121.621754 °	38.192702 ° -121.621754 °	87 Y
DWR ID: DWR_RD0003_01_s_2012_87										
83	9.19	9.19	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E2	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion around pipe penetration	38.192301 ° -121.624394 °	38.192301 ° -121.624394 °	89 Y
DWR ID: DWR_RD0003_01_s_2012_89										
84	9.19	9.19	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.192306 ° -121.624473 °	38.192306 ° -121.624473 °	88 Y
DWR ID: DWR_RD0003_01_s_2012_88										
85	10.19	10.19	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.188725 ° -121.641070 °	38.188725 ° -121.641070 °	90 Y
DWR ID: DWR_RD0003_01_s_2012_90										
86	10.20	10.22	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	38.188613 ° -121.641175 °	38.188388 ° -121.641485 °	27 Y
DWR ID: DWR_RD0003_01_s_2012_27										
87	10.53	10.53	Earthen Levee	Encroachments	LS Ma	A/W	PI : Pipe	38.185029 ° -121.645154 °	38.185029 ° -121.645154 °	91 Y
DWR ID: DWR_RD0003_01_s_2012_91										
88	10.87	11.01	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Photo of obstructive vegetation beyond levee mile 10.87	38.183204 ° -121.650861 °	38.182481 ° -121.653199 °	92 Y
DWR ID: DWR_RD0003_01_s_2012_92										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.18
End Levee Mile	0.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_STM_26-0_L_1.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.18
End Levee Mile	0.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_STM_26-0_L_2.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.21
End Levee Mile	0.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at trash on waterside berm.	
richard_f_20121012_371.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at landscaping on waterside shoulder and slope.	
richard_f_20121012_323.jpg	



Levee Mile Report Line	9
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at century plant on landside shoulder.	
richard_f_20121029_897.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.92
End Levee Mile	1.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_STM_25-0_L_1.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	0.92
End Levee Mile	1.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_STM\_25-0\_L\_2.jpg



Levee Mile Report Line	12
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Crown
Category	Earthen Levee
Item	Encroachments

Irrigation intake pipe from Steamboat Slough.

richard\_f\_20121012\_346.jpg



Levee Mile Report Line	13
Start Levee Mile	1.01
End Levee Mile	1.03
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Grass on levee slope and toe exceeds 12" and partially obstructs visibility.

richard\_f\_20121012\_347.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	1.03
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012\_STM\_24-8\_L\_1.jpg



Levee Mile Report Line	14
Start Levee Mile	1.03
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_STM\_24-8\_L\_2.jpg



Levee Mile Report Line	15
Start Levee Mile	1.08
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at landscaping on landside slope.

richard\_f\_20121012\_328.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northeast at dense vegetation on waterside slope.	
richard_f_20121012_322.jpg	



Levee Mile Report Line	17
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Irrigation pipe penetration.	
richard_f_20121012_348.jpg	



Levee Mile Report Line	18
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment within 10' of levee toe obstructs access and visibility.	
richard_f_20121012_349.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at tool shed and equipment on landside toe.	
richard_f_20121012_350.jpg	



Levee Mile Report Line	19
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense trees on landside shoulder and slope.	
richard_f_20121012_333.jpg	



Levee Mile Report Line	19
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense trees on landside shoulder and slope. (updated Spring 2012)	
richard_f_20121012_334.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	1.61
End Levee Mile	1.61
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscaping on landside shoulder and slope.	
richard_f_20121012_324.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.64
End Levee Mile	1.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at dense landscaping on landside shoulder and slope.	
richard_f_20121012_335.jpg	



Levee Mile Report Line	24
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking east at vegetation on landside slope.	
richard_f_20121012_325.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	2.07
End Levee Mile	2.07
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pipe penetration and pump shed on waterside slope.	
richard_f_20121012_351.jpg	



Levee Mile Report Line	33
Start Levee Mile	3.13
End Levee Mile	3.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northeast at dense veg. on landside slope.	
richard_f_20121012_336.jpg	



Levee Mile Report Line	37
Start Levee Mile	3.33
End Levee Mile	3.33
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Large cactus on upper levee slope obstructs access and visibility.	
richard_f_20121012_354.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	3.52
End Levee Mile	3.52
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe penetration. Pipe has been grouted.	
richard_f_20121012_355.jpg	



Levee Mile Report Line	45
Start Levee Mile	4.30
End Levee Mile	4.49
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Vegetation on levee slopes and toe partially obstruct visibility.	
richard_f_20121012_356.jpg	



Levee Mile Report Line	48
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west a century plants on landside slope next to a ramp.	
richard_f_20121012_357.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	50
Start Levee Mile	5.48
End Levee Mile	5.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at century plants on landside shoulder and slope.	
richard_f_20121012_352.jpg	



Levee Mile Report Line	51
Start Levee Mile	5.53
End Levee Mile	5.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking east at landscaping on landside toe.	
richard_f_20121012_353.jpg	



Levee Mile Report Line	53
Start Levee Mile	5.70
End Levee Mile	5.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at dense vegetation covering farm equipment on landside toe.	
richard_f_20121012_358.jpg	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	5.76
End Levee Mile	5.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope and within 10' of levee toe obstruct visibility and access.	
richard_f_20121012_359.jpg	



Levee Mile Report Line	54
Start Levee Mile	5.76
End Levee Mile	5.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at trimmed landscaping on landside shoulder and slope. (Updated Spring 2012)	
richard_f_20121012_360.jpg	



Levee Mile Report Line	58
Start Levee Mile	6.76
End Levee Mile	6.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Interior drainage discharge pipe penetrates levee.	
richard_f_20121012_361.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	60
Start Levee Mile	7.00
End Levee Mile	7.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at garbage at landside toe.

richard\_f\_20121029\_898.JPG



Levee Mile Report Line	62
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Large Cactus plant on landside shoulder block view of levee slope from LM 7.08 to 7.10

richard\_f\_20121012\_340.jpg



Levee Mile Report Line	62
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at updated picture (5/2010) century plant on landside shoulder and slope.

richard\_f\_20121012\_341.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	63
Start Levee Mile	7.22
End Levee Mile	7.49
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Vegetation on levee slope near boat launch is partially obstructive.	
richard_f_20121012_362.jpg	



Levee Mile Report Line	65
Start Levee Mile	7.68
End Levee Mile	7.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at landscaping in front of a house on waterside berm. Also not in the picture a building on landside berm.	
richard_f_20121012_364.jpg	



Levee Mile Report Line	66
Start Levee Mile	7.69
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Buildings obstruct access and visibility of levee slope and toe.	
richard_f_20121012_363.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	68
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Front view of dense trees at landside toe.

richard\_f\_20121012\_372.jpg



Levee Mile Report Line	68
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Side view of dense trees at landside toe.

richard\_f\_20121012\_373.jpg



Levee Mile Report Line	69
Start Levee Mile	7.84
End Levee Mile	8.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Trees within 10' of levee toe obstruct access and visibility of levee toe.

richard\_f\_20121012\_365.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	71
Start Levee Mile	7.95
End Levee Mile	8.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping (Ivy) on landside slope blocking view of levee from LM 7.95 to 8.00	
richard_f_20121012_342.jpg	



Levee Mile Report Line	79
Start Levee Mile	8.75
End Levee Mile	8.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Interior drainage discharge pipes penetrate levee.	
richard_f_20121012_366.jpg	



Levee Mile Report Line	83
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion occurring around pipe penetration.	
richard_f_20121012_368.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	83
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking west at repaired erosion around irrigation pipe.	
richard_f_20121012_369.jpg	



Levee Mile Report Line	84
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pipe penetration showing newer pipe next to abandoned pipe.	
richard_f_20121012_367.jpg	



Levee Mile Report Line	86
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees to be trimmed on landside shoulder from LM 10.20 to 10.22	
richard_f_20121012_343.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	86
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of trees on landside shoulder.

richard\_f\_20121012\_344.jpg



Levee Mile Report Line	86
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at updated picture (5/10) of dense trees on landside slope.

richard\_f\_20121012\_345.jpg



Levee Mile Report Line	88
Start Levee Mile	10.87
End Levee Mile	11.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee between levee mile 10.87 to 11.01

richard\_f\_20121012\_370.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles
Unit No. 02 Right Bank Sacramento River	Right	17.62

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	03/20/2012 - 03/21/2012		10/23/2012 - 10/23/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Michael Moncrief MBK		Michael Moncrief MBK Dave Robinson RD 3	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River		Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	0.40	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on waterside and landside slope complies with standards.	38.175971 ° -121.653764 °	38.175971 ° -121.647142 °	73 Y
DWR ID: DWR_RD0003_02_s_2012_73									
2	0.17	0.17	Earthen Levee	Trim / Thin Trees	WS M Ma	T1 : Trim trees to at least five feet above ground level.	38.174890 ° -121.651031 °	38.174890 ° -121.651031 °	3
DWR ID: DWR_RD0003_02_s_2012_3									
3	0.25	0.25	Earthen Levee	Trim / Thin Trees	LS M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.174504 ° -121.649651 °	38.174504 ° -121.649651 °	4
DWR ID: DWR_RD0003_02_s_2012_4									
4	0.31	0.33	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.174281 ° -121.648698 °	38.174209 ° -121.648352 °	5 Y
DWR ID: DWR_RD0003_02_s_2012_5									
5	0.40	0.40	Earthen Levee	Slope Stability	WSA/W Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: District repaired slope damage cause by foot traffic.	38.173989 ° -121.647142 °	38.173989 ° -121.647142 °	1 Y
DWR ID: DWR_RD0003_02_s_2012_1									
6	1.32	1.32	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	38.171005 ° -121.631524 °	38.171005 ° -121.631524 °	39
DWR ID: DWR_RD0003_02_s_2012_39									
7	1.71	1.71	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	38.167958 ° -121.625706 °	38.167958 ° -121.625706 °	40
DWR ID: DWR_RD0003_02_s_2012_40									
8	1.93	1.98	Earthen Levee	Vegetation	WS U En	V6 : Landscaping	38.166525 ° -121.622201 °	38.166176 ° -121.621332 °	70 Y
DWR ID: DWR_RD0003_02_s_2012_70									
9	2.50	2.50	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.164369 ° -121.612548 °	38.164369 ° -121.612548 °	6
DWR ID: DWR_RD0003_02_s_2012_6									
10	2.78	2.78	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.164676 ° -121.607479 °	38.164676 ° -121.607479 °	951
DWR ID: DWR_RD0003_02_s_2012_951									
11	2.91	2.91	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe Inspector Comments: Gas Pipeline	38.165065 ° -121.605275 °	38.165065 ° -121.605275 °	42
DWR ID: DWR_RD0003_02_s_2012_42									
12	2.91	2.91	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe Inspector Comments: Pipe crossing	38.165110 ° -121.605143 °	38.165110 ° -121.605143 °	43
DWR ID: DWR_RD0003_02_s_2012_43									
13	3.29	3.29	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.167808 ° -121.599557 °	38.167808 ° -121.599557 °	7 Y
DWR ID: DWR_RD0003_02_s_2012_7									
14	3.32	3.32	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Obstructive blackberry.	38.168134 ° -121.599028 °	38.168134 ° -121.599028 °	44 Y
DWR ID: DWR_RD0003_02_s_2012_44									

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River		Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	3.39	3.39	Earthen Levee	Encroachments	WS Ma	M	PI : Pipe Inspector Comments: Pipe penetration.	38.168734 ° -121.598183 °	38.168734 ° -121.598183 °	45 Y
DWR ID: DWR_RD0003_02_s_2012_45										
16	3.41	3.41	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: Iceplant	38.169061 ° -121.597765 °	38.169061 ° -121.597765 °	46
DWR ID: DWR_RD0003_02_s_2012_46										
17	3.83	3.92	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.173977 ° -121.593725 °	38.175118 ° -121.592925 °	8
DWR ID: DWR_RD0003_02_s_2012_8										
18	3.87	3.87	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.174430 ° -121.593372 °	38.174430 ° -121.593372 °	952 Y
DWR ID: DWR_RD0003_02_s_2012_952										
19	3.87	3.87	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.174478 ° -121.593368 °	38.174478 ° -121.593368 °	47
DWR ID: DWR_RD0003_02_s_2012_47										
20	3.90	3.92	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.174817 ° -121.593110 °	38.175077 ° -121.592965 °	953
DWR ID: DWR_RD0003_02_s_2012_953										
21	4.22	4.22	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: Cactus on landside and waterside slope	° °	° °	15 Y
DWR ID: DWR_RD0003_02_s_2012_15										
22	4.24	4.24	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.179160 ° -121.590247 °	38.179160 ° -121.590247 °	48
DWR ID: DWR_RD0003_02_s_2012_48										
23	4.35	4.35	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.180361 ° -121.589127 °	38.180361 ° -121.589127 °	10
DWR ID: DWR_RD0003_02_s_2012_10										
24	4.36	4.42	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.180531 ° -121.589103 °	38.181330 ° -121.588480 °	92 Y
DWR ID: DWR_RD0003_02_s_2012_92										
25	4.50	4.50	Earthen Levee	Encroachments	LS Ma	A/W	PI : Pipe	38.182290 ° -121.587641 °	38.182290 ° -121.587641 °	49
DWR ID: DWR_RD0003_02_s_2012_49										
26	4.59	4.59	Earthen Levee	Encroachments	LS Ma	A/W	PI : Pipe	38.183468 ° -121.586634 °	38.183468 ° -121.586634 °	51
DWR ID: DWR_RD0003_02_s_2012_51										
27	4.72	4.80	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.184832 ° -121.585386 °	38.185737 ° -121.584473 °	13
DWR ID: DWR_RD0003_02_s_2012_13										
28	4.98	4.98	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe		38.187660 ° -121.582438 °	38.187660 ° -121.582438 °	52
DWR ID: DWR_RD0003_02_s_2012_52										
29	5.05	5.10	Earthen Levee	Trim / Thin Trees	LS Ma	M	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.188344 ° -121.581414 °	38.188748 ° -121.580743 °	14
DWR ID: DWR_RD0003_02_s_2012_14										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
30	5.65	5.68	Earthen Levee	Encroachments	LS	M En	FE : Fence	°	°	21
								°	°	
								DWR ID: DWR_RD0003_02_s_2012_21		
31	5.94	6.00	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.193552 °	38.193832 °	11
								-121.566933 °	-121.565995 °	Y
								DWR ID: DWR_RD0003_02_s_2012_11		
32	6.21	6.21	Earthen Levee	Encroachments	LS	M En	CR : Crops Inspector Comments: Orchard on lower levee slope	38.195586 °	38.195586 °	54
								-121.562669 °	-121.562669 °	
								DWR ID: DWR_RD0003_02_s_2012_54		
33	6.66	6.69	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.201255 °	38.201634 °	88
								-121.558977 °	-121.558886 °	Y
								DWR ID: DWR_RD0003_02_s_2012_88		
34	7.02	7.04	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.206363 °	38.206598 °	12
								-121.558520 °	-121.558530 °	Y
								DWR ID: DWR_RD0003_02_s_2012_12		
35	7.16	7.16	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.208205 °	38.208205 °	16
								-121.558565 °	-121.558565 °	Y
								DWR ID: DWR_RD0003_02_s_2012_16		
36	7.38	7.38	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.211357 °	38.211357 °	55
								-121.558468 °	-121.558468 °	Y
								DWR ID: DWR_RD0003_02_s_2012_55		
37	7.86	7.86	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Photo with for sale sign.	38.218235 °	38.218235 °	56
								-121.558481 °	-121.558481 °	Y
								DWR ID: DWR_RD0003_02_s_2012_56		
38	8.20	8.20	Earthen Levee	Encroachments	LS A/W	En	PR : Prunings	38.223099 °	38.223099 °	57
								-121.557537 °	-121.557537 °	
								DWR ID: DWR_RD0003_02_s_2012_57		
39	8.27	8.27	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe Inspector Comments: Tunnel	38.224112 °	38.224112 °	58
								-121.557202 °	-121.557202 °	Y
								DWR ID: DWR_RD0003_02_s_2012_58		
40	8.41	8.41	Earthen Levee	Trim / Thin Trees	LS A/W	Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Fallen tree on levee slope.	38.226073 °	38.226073 °	17
								-121.557018 °	-121.557018 °	
								DWR ID: DWR_RD0003_02_s_2012_17		
41	8.60	8.60	Earthen Levee	Encroachments	WS	M Ma	MA : Material Inspector Comments: Concrete footings and retaining walls at levee toe and slopes.	38.228793 °	38.228793 °	59
								-121.557233 °	-121.557233 °	
								DWR ID: DWR_RD0003_02_s_2012_59		
42	9.14	9.14	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	°	°	23
								°	°	
								DWR ID: DWR_RD0003_02_s_2012_23		
43	9.19	9.19	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: New landowner installed unauthorized ramp on landside slope. District engineer has spoken with landowner about removing the ramp.	38.236877 °	38.236877 °	2
								-121.559528 °	-121.559528 °	Y
								DWR ID: DWR_RD0003_02_s_2012_2		
44	9.20	9.20	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.236999 °	38.236999 °	61
								-121.559412 °	-121.559412 °	
								DWR ID: DWR_RD0003_02_s_2012_61		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
45	9.23	9.31	Earthen Levee	Encroachments	LS	M En	BU : Building Inspector Comments: Ryde, CA	38.237346 ° -121.559154 °	38.238329 ° -121.558534 °	62
DWR ID: DWR_RD0003_02_s_2012_62										
46	9.47	9.47	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.240337 ° -121.556870 °	38.240337 ° -121.556870 °	63
DWR ID: DWR_RD0003_02_s_2012_63										
47	9.53	9.70	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.240926 ° -121.556160 °	38.242206 ° -121.553616 °	18
DWR ID: DWR_RD0003_02_s_2012_18										
48	9.75	9.85	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.242386 ° -121.552699 °	38.242519 ° -121.550864 °	64
DWR ID: DWR_RD0003_02_s_2012_64										
49	10.01	10.10	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping Inspector Comments: Ivy on slope.	38.242228 ° -121.548090 °	38.241926 ° -121.546406 °	65
DWR ID: DWR_RD0003_02_s_2012_65										
50	10.13	10.13	Earthen Levee	Encroachments	LS	U En	FE : Fence	38.241880 ° -121.546108 °	38.241880 ° -121.546108 °	19 Y
DWR ID: DWR_RD0003_02_s_2012_19										
51	10.24	10.29	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.241551 ° -121.544035 °	38.241422 ° -121.543236 °	85
DWR ID: DWR_RD0003_02_s_2012_85										
52	10.34	10.38	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.241160 ° -121.542377 °	38.241005 ° -121.541618 °	22
DWR ID: DWR_RD0003_02_s_2012_22										
53	10.74	10.74	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.239499 ° -121.535338 °	38.239499 ° -121.535338 °	66 Y
DWR ID: DWR_RD0003_02_s_2012_66										
54	10.98	10.98	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.238812 ° -121.531031 °	38.238812 ° -121.531031 °	67 Y
DWR ID: DWR_RD0003_02_s_2012_67										
55	11.02	11.11	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.238817 ° -121.530372 °	38.238959 ° -121.528758 °	68
DWR ID: DWR_RD0003_02_s_2012_68										
56	11.12	11.35	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.238998 ° -121.528585 °	38.239825 ° -121.524558 °	69 Y
DWR ID: DWR_RD0003_02_s_2012_69										
57	11.33	11.33	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Hole left in levee toe from a fallen tree. Could be repaired under maintenance. 2010 - Minor new erosion. 2012: No observed change. [2012 Site ID: SAC_26-3_R]	38.239983 ° -121.519361 °	38.239870 ° -121.520989 °	20 Y
DWR ID:										
58	11.44	11.44	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	° °	° °	26
DWR ID: DWR_RD0003_02_s_2012_26										
59	11.79	11.79	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.241300 ° -121.517073 °	38.241300 ° -121.517073 °	24
DWR ID: DWR_RD0003_02_s_2012_24										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
60	11.86	11.95	Earthen Levee	Encroachments	LS	M En	BU : Building Inspector Comments: Walnut Grove, CA	38.242035 ° -121.516134 °	38.243125 ° -121.515229 °	71 Y
DWR ID: DWR_RD0003_02_s_2012_71										
61	12.03	12.07	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.243915 ° -121.514254 °	38.244392 ° -121.513740 °	83 Y
DWR ID: DWR_RD0003_02_s_2012_83										
62	12.21	12.21	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: Landowner installed new ramp with board permit.	38.246022 ° -121.512328 °	38.246022 ° -121.512328 °	268 Y
DWR ID: DWR_RD0003_02_s_2012_268										
63	12.21	12.21	Earthen Levee	Encroachments	LS	M En	FE : Fence Inspector Comments: Landowner installed a new fence on landside of levee.	38.246025 ° -121.512327 °	38.246025 ° -121.512327 °	267 Y
DWR ID: DWR_RD0003_02_s_2012_267										
64	12.23	12.30	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping Inspector Comments: Landscaping and new wooden fence on landside slope.	38.246310 ° -121.512157 °	38.247332 ° -121.511773 °	31 Y
DWR ID: DWR_RD0003_02_s_2012_31										
65	12.26	12.26	Earthen Levee	Encroachments	LS	M En	FE : Fence Inspector Comments: Landowner installed a new fence w/o permit.	38.246732 ° -121.511927 °	38.246732 ° -121.511927 °	269 Y
DWR ID: DWR_RD0003_02_s_2012_269										
66	12.33	12.40	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Oleander blocking view of levee on landside slope.	38.247788 ° -121.511695 °	38.248682 ° -121.511657 °	32 Y
DWR ID: DWR_RD0003_02_s_2012_32										
67	12.48	12.55	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.249920 ° -121.511845 °	38.250808 ° -121.512152 °	34 Y
DWR ID: DWR_RD0003_02_s_2012_34										
68	12.49	12.49	Earthen Levee	Trim / Thin Trees	WSA/W	T1 Ma	T1 : Trim trees to at least five feet above ground level.	38.249937 ° -121.511834 °	38.249937 ° -121.511834 °	25 Y
DWR ID: DWR_RD0003_02_s_2012_25										
69	12.60	12.63	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Landscaping blocking view of landside slope.	38.251463 ° -121.512458 °	38.251873 ° -121.512678 °	35 Y
DWR ID: DWR_RD0003_02_s_2012_35										
70	12.77	12.85	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Dense landscaping on landside shoulder and slope.	38.253593 ° -121.513883 °	38.254590 ° -121.514862 °	37 Y
DWR ID: DWR_RD0003_02_s_2012_37										
71	13.26	13.29	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping Inspector Comments: Dense landscaping blocking view of landside slope.	38.258703 ° -121.520160 °	38.259003 ° -121.520557 °	82 Y
DWR ID: DWR_RD0003_02_s_2012_82										
72	13.60	13.60	Earthen Levee	Encroachments	LS	M Ma	ST : Stairway Inspector Comments: Landowner installed unauthorized stairs on landside slope.	38.262125 ° -121.524405 °	38.262125 ° -121.524405 °	9 Y
DWR ID: DWR_RD0003_02_s_2012_9										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River				Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

  

LMIR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
73	13.90	13.90	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	°	°	27
							°	°	
							DWR ID: DWR_RD0003_02_s_2012_27		
74	14.20	14.20	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.267991 °	38.267991 °	33
							-121.532340 °	-121.532340 °	
							DWR ID: DWR_RD0003_02_s_2012_33		
75	14.36	14.38	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.269642 °	38.269882 °	50
							-121.534540 °	-121.534863 °	Y
							DWR ID: DWR_RD0003_02_s_2012_50		
76	14.93	15.09	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.275256 °	38.276857 °	72
							-121.542099 °	-121.543988 °	Y
							DWR ID: DWR_RD0003_02_s_2012_72		
77	15.20	15.27	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.278237 °	38.278930 °	53
							-121.545405 °	-121.546218 °	
							DWR ID: DWR_RD0003_02_s_2012_53		
78	15.84	15.93	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.284124 °	38.285129 °	79
							-121.554084 °	-121.555342 °	Y
							DWR ID: DWR_RD0003_02_s_2012_79		
79	16.45	16.51	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.290742 °	38.291390 °	60
							-121.561575 °	-121.562268 °	Y
							DWR ID: DWR_RD0003_02_s_2012_60		
80	16.54	16.54	Supplemental	USACE Erosion Survey	WS M Ma	Inspector Comments: 1997 - Erosion of supper sandy levee material above the water line, straight reach. 1999 - Small pocket repaired with rock. 2005 - Downstream 400 ft have been repaired. 2011 - Site is overgrown with vegetation. 2012: No observed change. [2012 Site ID: SAC_31-6_R]	38.295730 °	38.294757 °	28
							-121.566295 °	-121.565376 °	Y
							DWR ID:		
81	16.84	16.90	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.295082 °	38.295832 °	77
							-121.566037 °	-121.566756 °	Y
							DWR ID: DWR_RD0003_02_s_2012_77		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Photo of obstructive vegetation on levee slopes.

richard\_f\_20121012\_411.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast a typical view of levee between levee mile 0.00 to 0.44

richard\_f\_20121012\_412.jpg



Levee Mile Report Line	4
Start Levee Mile	0.31
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at bamboo on waterside slope.

richard\_f\_20121012\_378.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Slope instability caused by foot traffic on levee slope.	
richard_f_20121012_374.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at repaired slope damage caused by foot traffic.	
richard_f_20121012_375.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.93
End Levee Mile	1.98
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope obstructs visibility and access.	
richard_f_20121012_409.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking west at dense vegetation on landside slope and toe.	
richard_f_20121012_379.jpg	



Levee Mile Report Line	14
Start Levee Mile	3.32
End Levee Mile	3.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at berryvines on landside toe.	
richard_f_20121012_399.jpg	



Levee Mile Report Line	15
Start Levee Mile	3.39
End Levee Mile	3.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pipe penetration closure valve in open position.	
richard_f_20121012_400.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	3.87
End Levee Mile	3.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense bamboo on landside slope.

richard\_f\_20121012\_423.jpg



Levee Mile Report Line	21
Start Levee Mile	4.22
End Levee Mile	4.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at cactus on landside slope.

richard\_f\_20121012\_387.jpg



Levee Mile Report Line	21
Start Levee Mile	4.22
End Levee Mile	4.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast a cactus on waterside shoulder and slope.

richard\_f\_20121012\_388.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	4.36
End Levee Mile	4.42
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope and toe obstructs access and visibility.	
richard_f_20121012_419.jpg	



Levee Mile Report Line	31
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00	
richard_f_20121012_382.jpg	



Levee Mile Report Line	31
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope and toe obstructs access and visibility.	
richard_f_20121012_383.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	33
Start Levee Mile	6.66
End Levee Mile	6.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at landscaping on landside shoulder.	
richard_f_20121012_418.jpg	



Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Dense trees at landside toe and shoulder	
richard_f_20121012_384.jpg	



Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Front view of palm trees on landside shoulder	
richard_f_20121012_385.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at updated dense veg on landside slope.	
richard_f_20121012_386.jpg	



Levee Mile Report Line	35
Start Levee Mile	7.16
End Levee Mile	7.16
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at dense veg. on landside toe.	
richard_f_20121012_389.jpg	



Levee Mile Report Line	36
Start Levee Mile	7.38
End Levee Mile	7.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest a dense landscaping on landside shoulder and slope.	
richard_f_20121012_402.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	7.86
End Levee Mile	7.86
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at cactus on landside shoulder and slope.

richard\_f\_20121012\_403.jpg



Levee Mile Report Line	39
Start Levee Mile	8.27
End Levee Mile	8.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Photo of tunnel through levee.

richard\_f\_20121012\_404.jpg



Levee Mile Report Line	43
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on landside slope.

richard\_f\_20121012\_376.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at ramp on landside slope.	
richard_f_20121012_377.jpg	



Levee Mile Report Line	50
Start Levee Mile	10.13
End Levee Mile	10.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Block/Concrete fence on landside shoulder at LM 10.13	
richard_f_20121012_390.jpg	



Levee Mile Report Line	53
Start Levee Mile	10.74
End Levee Mile	10.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope and toe obstructs access and visibility.	
richard_f_20121012_406.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	10.98
End Levee Mile	10.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on levee slope obstructs access and visibility.	
richard_f_20121012_407.jpg	



Levee Mile Report Line	56
Start Levee Mile	11.12
End Levee Mile	11.35
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping trees on levee slope an toe obstruct access and visibility.	
richard_f_20121012_408.jpg	



Levee Mile Report Line	57
Start Levee Mile	11.33
End Levee Mile	11.33
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_SAC_26-3_R_1.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	57
Start Levee Mile	11.33
End Levee Mile	11.33
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_SAC\_26-3\_R\_2.jpg



Levee Mile Report Line	61
Start Levee Mile	12.03
End Levee Mile	12.07
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at dense landscaping on landside shoulder and slope.

richard\_f\_20121012\_417.jpg



Levee Mile Report Line	62
Start Levee Mile	12.21
End Levee Mile	12.21
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at new ramp on landside slope.

richard\_f\_20121012\_421.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	63
Start Levee Mile	12.21
End Levee Mile	12.21
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at new fence on landside shoulder and slope.	
richard_f_20121012_420.jpg	



Levee Mile Report Line	64
Start Levee Mile	12.23
End Levee Mile	12.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense landscaping on landside shoulder and slope.	
richard_f_20121012_394.jpg	



Levee Mile Report Line	65
Start Levee Mile	12.26
End Levee Mile	12.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest a new wooden fence on landside shoulder.	
richard_f_20121012_422.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	66
Start Levee Mile	12.33
End Levee Mile	12.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at oleander on landside shoulder.	
richard_f_20121012_395.jpg	



Levee Mile Report Line	67
Start Levee Mile	12.48
End Levee Mile	12.55
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at dense landscaping on landside shoulder.	
richard_f_20121012_396.jpg	



Levee Mile Report Line	69
Start Levee Mile	12.60
End Levee Mile	12.63
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at dense landscaping on landside shoulder and slope.	
richard_f_20121012_397.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	70
Start Levee Mile	12.77
End Levee Mile	12.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at dense landscaping on landside shoulder and slope.	
richard_f_20121012_398.jpg	



Levee Mile Report Line	71
Start Levee Mile	13.26
End Levee Mile	13.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense landscaping on landside shoulder and slope.	
richard_f_20121012_416.jpg	



Levee Mile Report Line	72
Start Levee Mile	13.60
End Levee Mile	13.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at stairs on landside slope.	
richard_f_20121012_380.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	72
Start Levee Mile	13.60
End Levee Mile	13.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at stairs on landside slope.	
richard_f_20121012_381.jpg	



Levee Mile Report Line	75
Start Levee Mile	14.36
End Levee Mile	14.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at landscaping on landside slope.	
richard_f_20121012_401.jpg	



Levee Mile Report Line	76
Start Levee Mile	14.93
End Levee Mile	15.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest a dense landscaping on landside shoulder and slope.	
richard_f_20121012_410.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	78
Start Levee Mile	15.84
End Levee Mile	15.93
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at landscaping on levee slope and toe obstruct access and visibility.	
richard_f_20121012_414.jpg	



Levee Mile Report Line	78
Start Levee Mile	15.84
End Levee Mile	15.93
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at dense landscaping on landside shoulder and slope.	
richard_f_20121012_415.jpg	



Levee Mile Report Line	79
Start Levee Mile	16.45
End Levee Mile	16.51
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense landscaping on landside shoulder and slope.	
richard_f_20121012_405.jpg	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	80
Start Levee Mile	16.54
End Levee Mile	16.54
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1
USACE2012_SAC_31-6_R_1.jpg



Levee Mile Report Line	80
Start Levee Mile	16.54
End Levee Mile	16.54
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2
USACE2012_SAC_31-6_R_2.jpg



Levee Mile Report Line	80
Start Levee Mile	16.54
End Levee Mile	16.54
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3
USACE2012_SAC_31-6_R_3.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	10/23/2012 10/23/2012	Richard Willoughby

Levee Mile Report Line	81
Start Levee Mile	16.84
End Levee Mile	16.90
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at landscaping on landside shoulder and slope.	
richard_f_20121012_413.jpg	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles
Unit No. 03 New Unit for RD0003		0.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection			-	
DWR Inspector			Richard Willoughby	
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 New Unit for RD0003		0.43		Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.43	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	°	°	1
								°	°	
								DWR ID: DWR_RD0003_03_f_2012_1		
2	0.00	0.43	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	°	°	2
								°	°	
								DWR ID: DWR_RD0003_03_f_2012_2		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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